

# **A VIRTUAL PATH RESTORATION SCHEME USING FAST DYNAMIC MESH RESTORATION IN AN OPTICAL NETWORK.**

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## **ABSTRACT**

10 A method for restoring a virtual path, provisioned between a source and a  
target node, in a mesh zoned optical network is described. The method, in one  
embodiment, broadcasts or floods restore path requests in the network to expedite the  
identification of an alternate route and minimize the service disruption for failed  
virtual path. The flooding of requests is controlled to ensure efficient performance of  
the network yet guaranteeing minimum restoration time to allow critical  
15 telecommunication related traffic to flow through the network with virtually no  
interruption. The constant update of nodal topology by each node allows a fast  
identification of alternate physical path for failed virtual path.

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